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(21)Application number : 04-257981

(71)Applicant : FUJITSU GENERAL LTD

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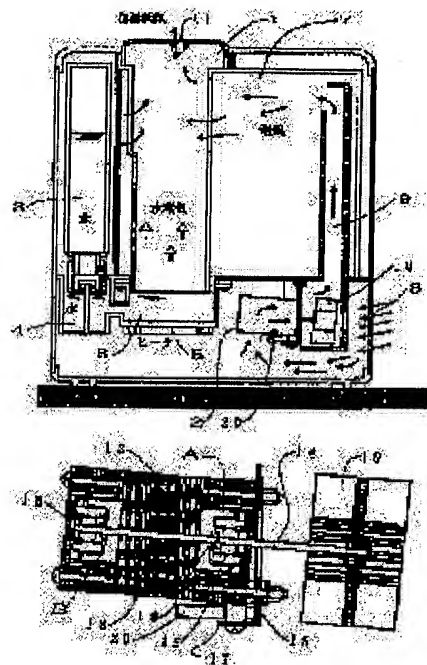
(72)Inventor : HATAKEYAMA ISAO

## (54) HUMIDIFIER

## (57)Abstract:

PURPOSE: To alter wind noise, an operating sound of a fan motor to operating sound having rhythmical feeling near prenatal sound by fixing a rotary shaft of the motor obliquely downward at a predetermined angle toward blades in a casing.

CONSTITUTION: Blades 10 are fixed to a motor mounting plate 17 of an L-shaped section obliquely at a predetermined angle such as 5° through a spacer 18, a rotor shaft 14 is supported by bearing metal 15 of a bracket A by a bearing stopper 19, the blades 10 are fixed to an end of the shaft 14 protruding upward from the plate 17, and a vibration plate 20 to be resonated to an impact of the shaft 14 is mounted on the plate 17 with one end fixed. Thus, the shaft 14 is held in a state deviated down by a weight of the blade 10 when a fan motor 2 is stopped, and magnetic sensors of a stator 12 and a rotor 13 are placed in a state deviated by the margins. Thus, an operating sound near prenatal sound having rhythmical feeling can be generated.



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(21)Application number : 08-168785

(71)Applicant : SANYO ELECTRIC CO LTD

(22)Date of filing : 28.06.1996

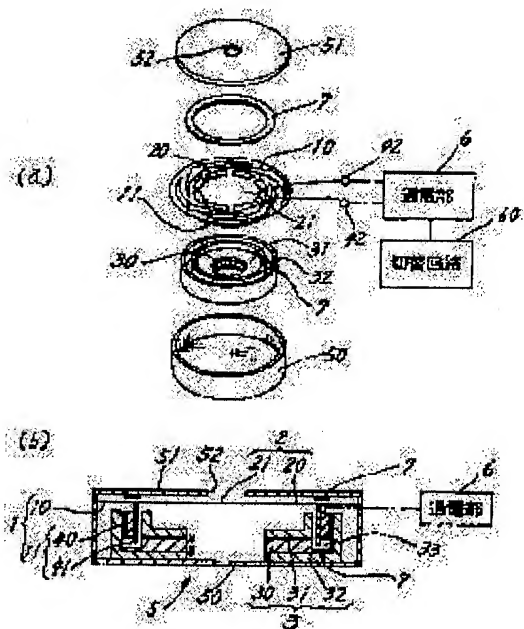
(72)Inventor : KAWAKAMI KOICHI  
HAMAGUCHI SHUNEI

## (54) VIBRATION GENERATOR FOR NOTIFICATION

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To save the space of a vibration generator and a sound generator by an arrangement wherein one of two vibration systems is a sound source for generating and externally transmitting a sound wave of audible frequency while the other vibration system is a vibration source for transmitting a vibration to a fixed member and vibrating an apparatus.

**SOLUTION:** The vibration generator for alarm comprises a first vibrator 11 having a permanent magnet 30 fixed to a fixed member 5 and a coil 40 disposed to intersect the flux of the permanent magnet 30 and supported by the fixed member 5 through a first spring body 10, a second vibrator 21 supported by the first vibrator 11 through a second spring body 20, and a part 6 connected with the coil 40 in order to feed the coil 40 with a current of preset frequency. Any one of the first vibration system 1 comprising the first vibrator 11 and the first spring body 10 or the second vibration system comprising the second vibrator 21 and the second spring body 20 is a sound source for generating and externally transmitting a sound wave of audible frequency while the other vibration system is a vibration source for transmitting a vibration to the fixed member 5 and vibrating an apparatus.



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